

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

02/25/2011

Kevin Powers  
Assistant District Attorney, Norfolk County

Dear ADA Powers,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Stacey Desjardins.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Stacey Desjardins was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

  
Annie Khan (Dookhan)  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631  
[Annie.Khan@state.ma.us](mailto:Annie.Khan@state.ma.us)

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*

*Executive Office of Health and Human Services*

*Department of Public Health*

*State Laboratory Institute*

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 - 11:00

2:00 - 4:00

Amherst Hours

9:00 - 12:00

1:00 - 3:00

**DRUG RECEIPT**

City or Department: Randolph Police Dept Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: Det. Detective Paul Smyth

Defendant(s) Name (last, first, initial):  
[REDACTED]

*To be completed by Submitter*

Description of Items Submitted

*To be completed by Lab Personnel*

Gross Weight

Lab Number

4 Separate packages of a yellowish rock-like substance wrapped in a clear plastic wrap

8 Separate packages of a yellowish rock-like substance wrapped in a clear plastic wrap

SUB 12 PB

10.29 g

Received by: AS Date: 7-6-10

## Curriculum Vitae

### Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.  
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

#### **Experience:**

2003 – present

#### Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- \*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of all analytical instruments.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \* Responsible for the Quality Control/Quality Assurance program for the drug lab.
- \*Notary Public.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

#### QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Trained and supervised new chemists and interns for the department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

#### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

#### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

# Stacey Lyn Desjardins

stacey.feiden@state.ma.us

EDUCATION	<p><b>Master of Science—Forensic Science</b> University of New Haven; West Haven, Connecticut May 2006</p> <ul style="list-style-type: none"><li>• Concentration: Criminalistics</li><li>• Certificate: Advanced Investigation</li></ul> <p><b>Bachelor of Arts—Chemistry</b> Monmouth College; Monmouth, Illinois May 2004</p> <ul style="list-style-type: none"><li>• Graduated Cum Laude</li></ul>
EXPERIENCE	<p><b>Chemist I</b> Massachusetts Department of Public Health; Jamaica Plain, Massachusetts March 2009-present</p> <ul style="list-style-type: none"><li>• Analyze unknown substances submitted by Massachusetts Law Enforcement Agencies</li><li>• Operate, maintain, and interpret data from analytical equipment (Gas Chromatograph, analytical balance, microscope, Ultraviolet Spectrometer, Infrared Spectrometer)</li><li>• Provide expert testimony to local, state, and federal courts in Massachusetts</li></ul> <p><b>Teaching/Graduate Assistant</b> Monmouth College Chemistry Department University of New Haven Forensic Science Department January 2001-May 2006</p> <ul style="list-style-type: none"><li>• Supervised labs and answered student questions</li><li>• Performed demonstrations using forensic techniques and chemicals</li></ul>
	<p><b>Additional work experience and references available upon request</b></p>
TRAINING	<p>2009: Multijurisdictional Counterdrug Task Force Training on Current Drug Trends</p> <p>2009: Six week training with Senior Staff at the Massachusetts Department of Public Health Drug Analysis Laboratory—appointed Assistant Analyst</p> <p>2005: Internship with the New Hampshire State Crime Lab</p>
COURSEWORK	<p>Biomedical Methods of Forensic Science, Criminal Procedure, Forensic Microscopy, Advanced Criminalistics I and II, Forensic Toxicology, Advanced Investigation I and II, Physical Analysis in Forensic Science, Organic Chemistry I and II, General Chemistry, Analytical Chemistry I and II, Physical Chemistry I, II, and III, Biochemistry, Advanced Inorganic Chemistry</p>

No. [REDACTED]

Date Analyzed: 10-01-10

City: Randolph Police Dept.

Officer: Detective PAUL SMYTH

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 112 Cont: pb

Date Rec'd: 07/06/2010

No. Analyzed: 2

Gross Wt.: 10.29 ✓

Net Weight: 2.82g

# Tests: 12 SLD

CLASS

(K)

Prelim: COCAINE

Findings: cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY RandolphANALYST SLDNo. of samples tested: 2

Evidence Wt.

✓

PHYSICAL DESCRIPTION: - signed & sealed  
- off white chunky substance  
in 12 pbs

Gross Wt (12): 4.2593g

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 2.8224g

→

## PRELIMINARY TESTS

### Spot Tests

2 Cobalt Thiocyanate ( ) H+ ⊕  
2 Marquis ⊖  
2 Froehde's ⊖  
2 Mecke's ⊖

### Microcrystalline Tests

2 Gold Chloride ⊕  
2 TLTA ( ) H+ ⊕

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS COCAINEDATE 9-28-10

(K)

## GC/MS CONFIRMATORY TEST

RESULTS COCAINEMS OPERATOR ASDDATE 10-1-10

Sample #:

# samples tested: 2

2 extra pbs = 2.81g

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.3619g	0.0774g	0.2845g	26			
2	0.2544g	0.0685g	0.1859g	27			
3		0		28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

Calculations:

$$\text{Total net wt} = 0.4704g$$

$$\div 2 = 0.2352$$

$$\times 12 = 2.8224g$$

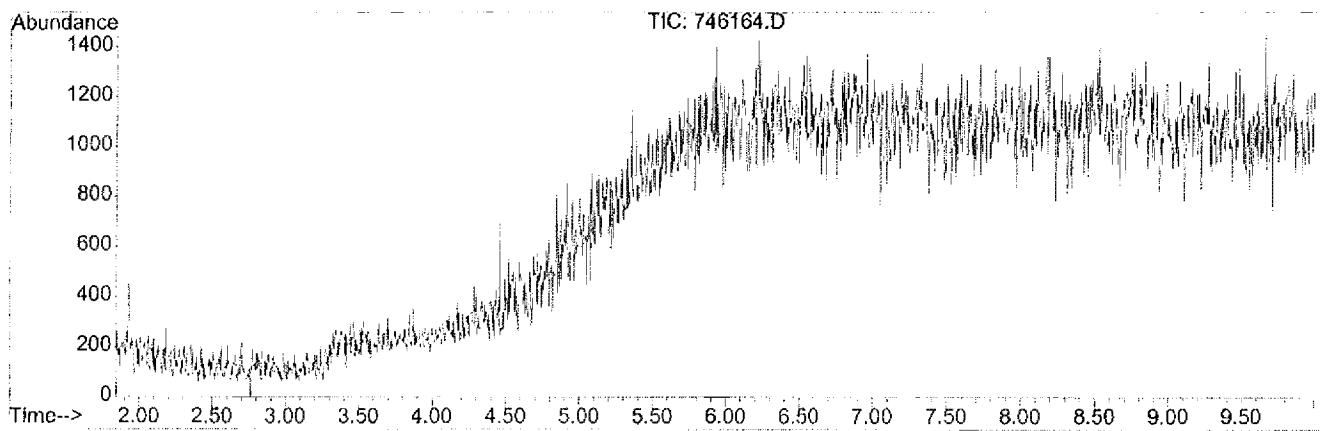
# Area Percent / Library Search Report

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Operator : ASD  
Date Acquired : 1 Oct 2010 7:13  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

189511  
2/25/11



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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

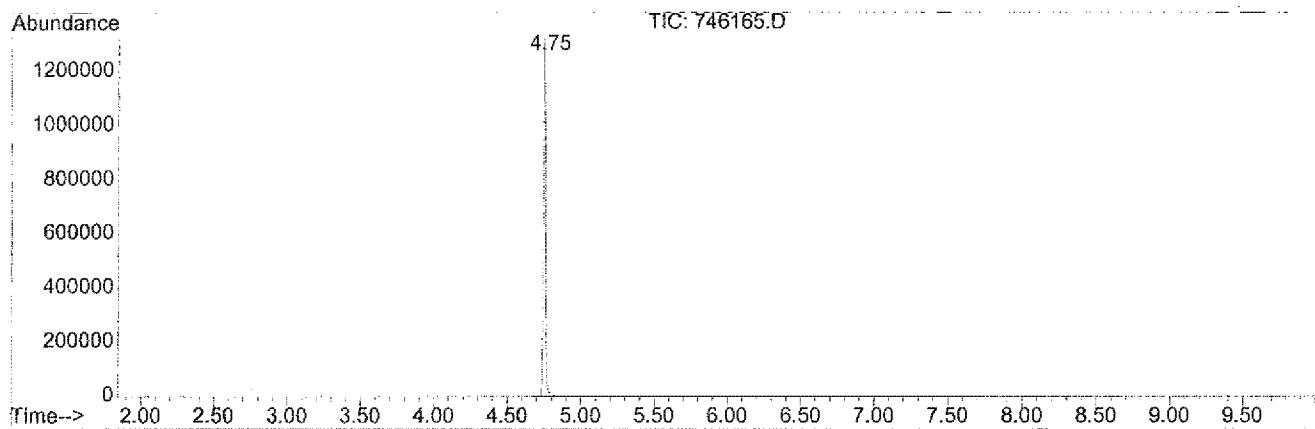
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746165.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 7:27  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 65  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.749	1312319	100.00	100.00

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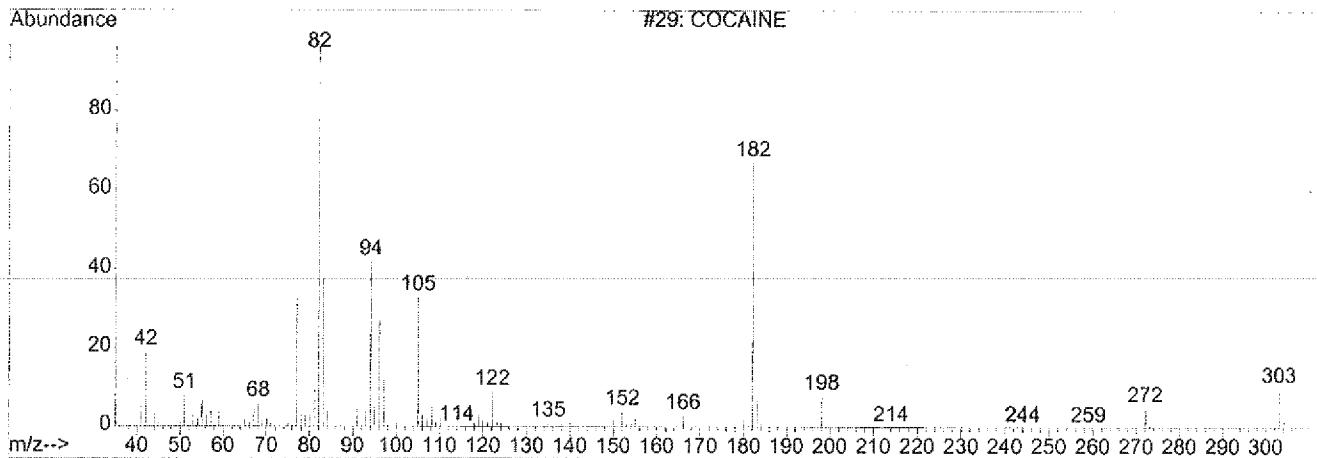
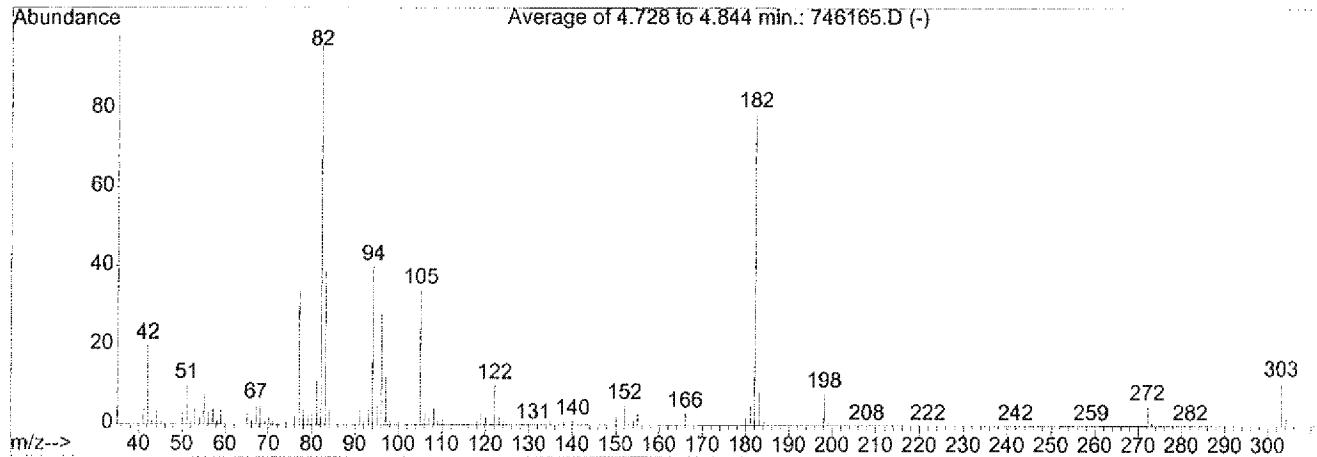
# Area Percent / Library Search Report

**Information from Data File:**

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Operator : ASD  
Date Acquired : 1 Oct 2010 7:27  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 65  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.75	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



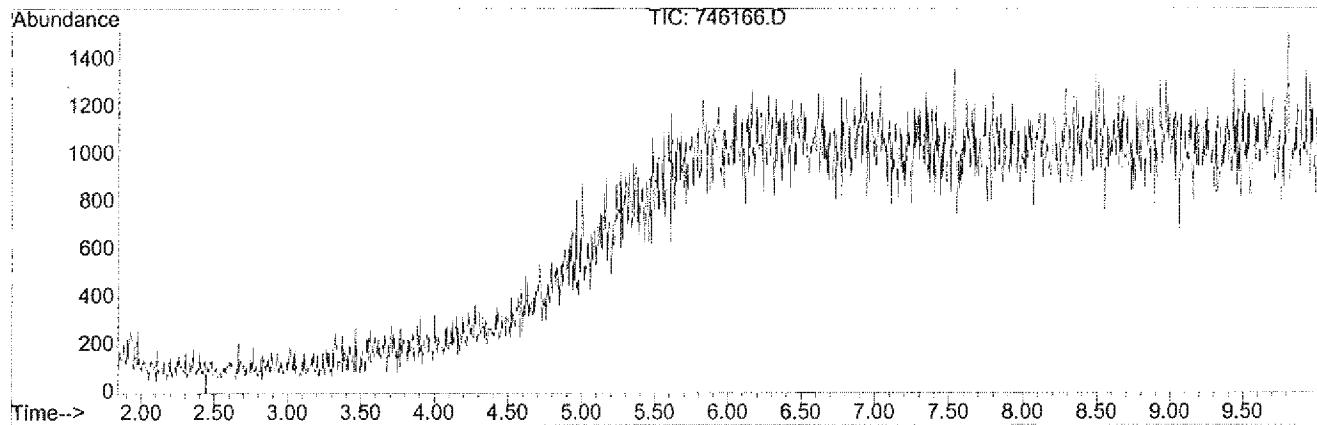
# Area Percent / Library Search Report

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File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746166.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 7:40  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

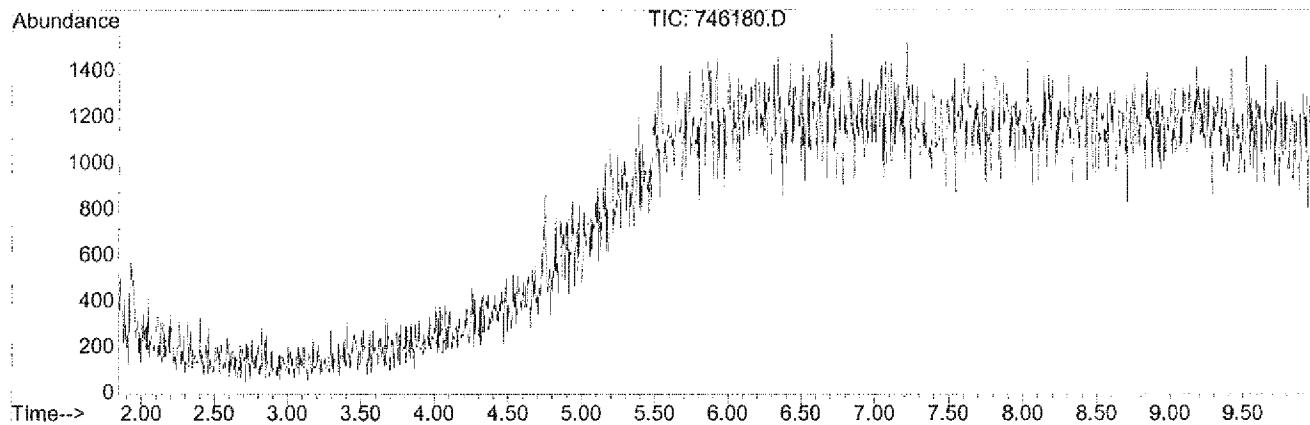
# Area Percent / Library Search Report

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File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746180.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 10:51  
Sample Name : BLANK  
Submitted by : SLD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

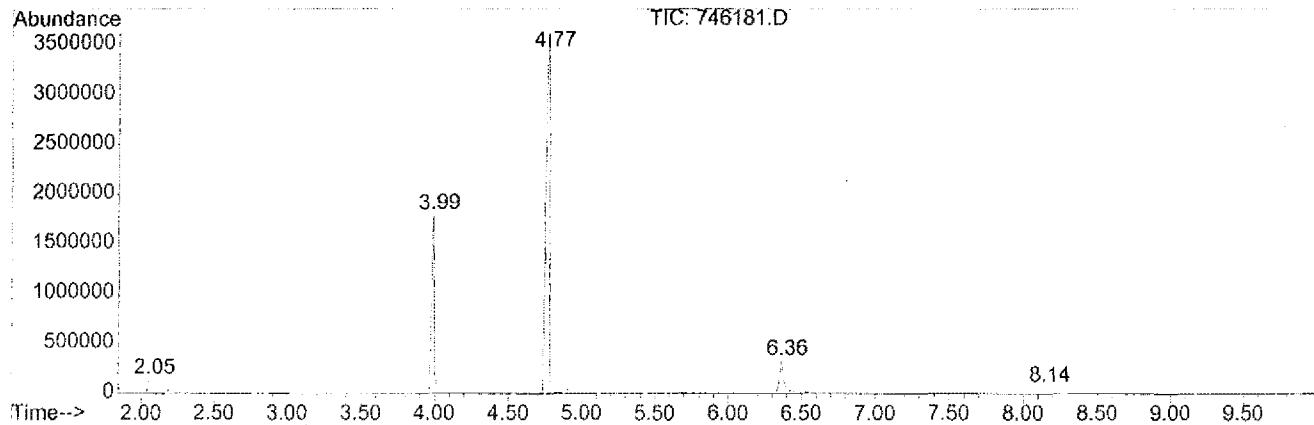
# Area Percent / Library Search Report

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**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746181.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 11:04  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 81  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
2.052	215638	2.18	3.38
3.988	2435590	24.57	38.23
4.771	6370711	64.26	100.00
6.363	736867	7.43	11.57
8.140	155379	1.57	2.44

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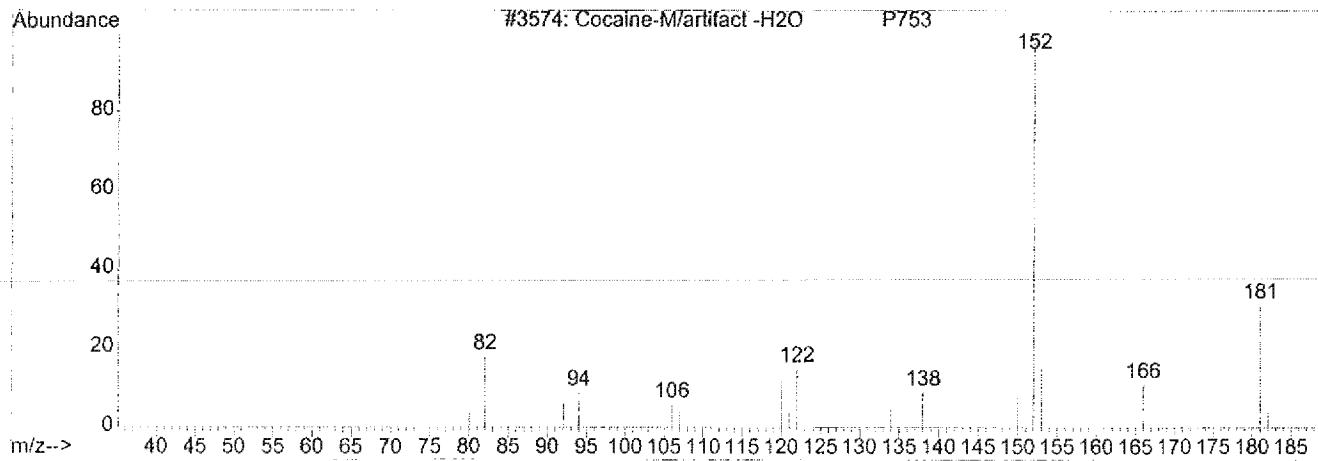
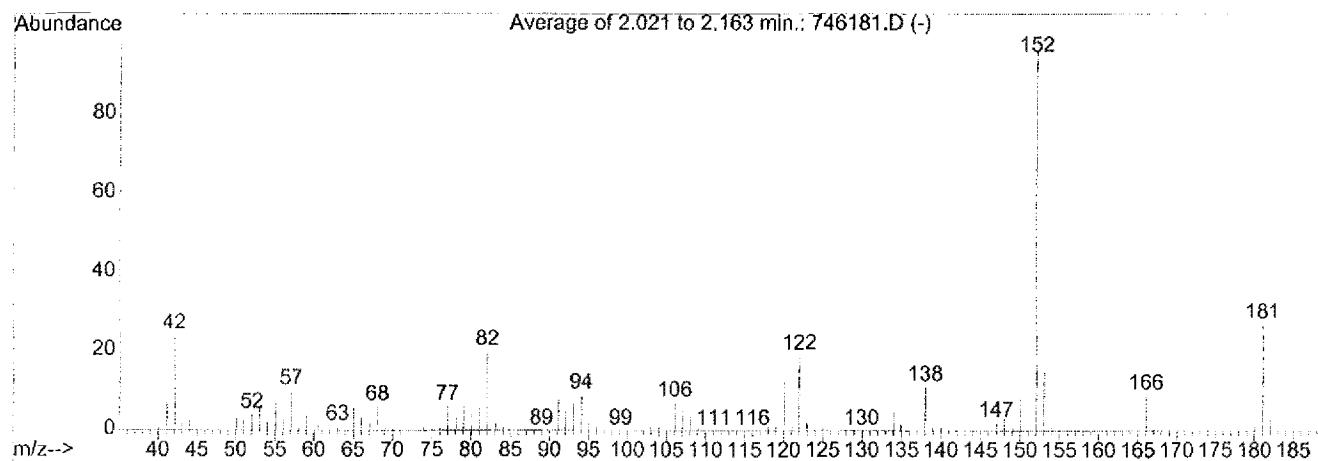
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746181.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 11:04  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 81  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	2.05	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	97
		Metipranolol-M/artifact AC	000000-00-0	38
		MDA-M (desmethylene-methyl-) ME	@ 000000-00-0	28



# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746181.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 11:04  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 81  
AcquisitionMeth: DRUGS  
Integrator : RTE

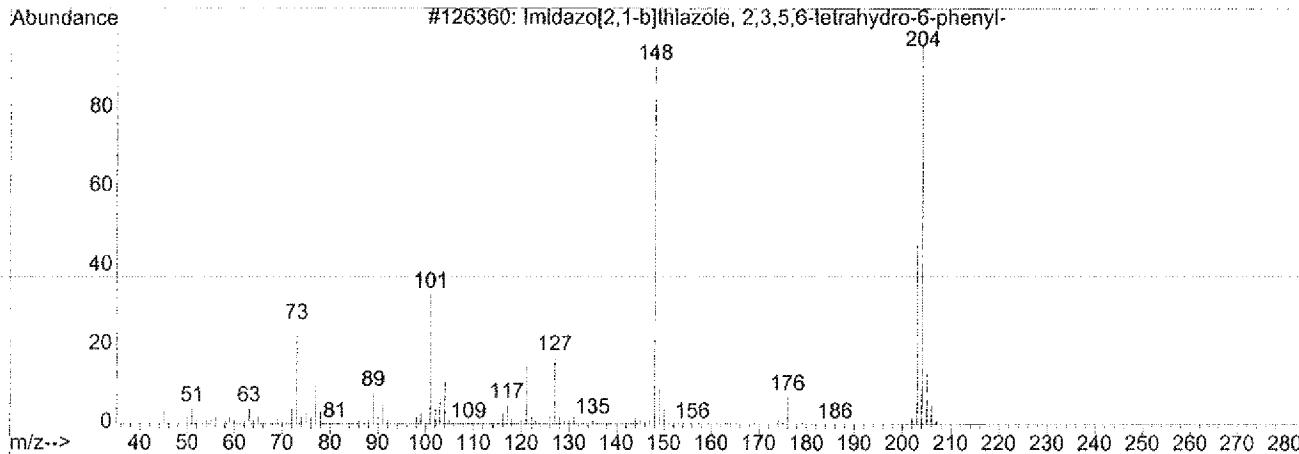
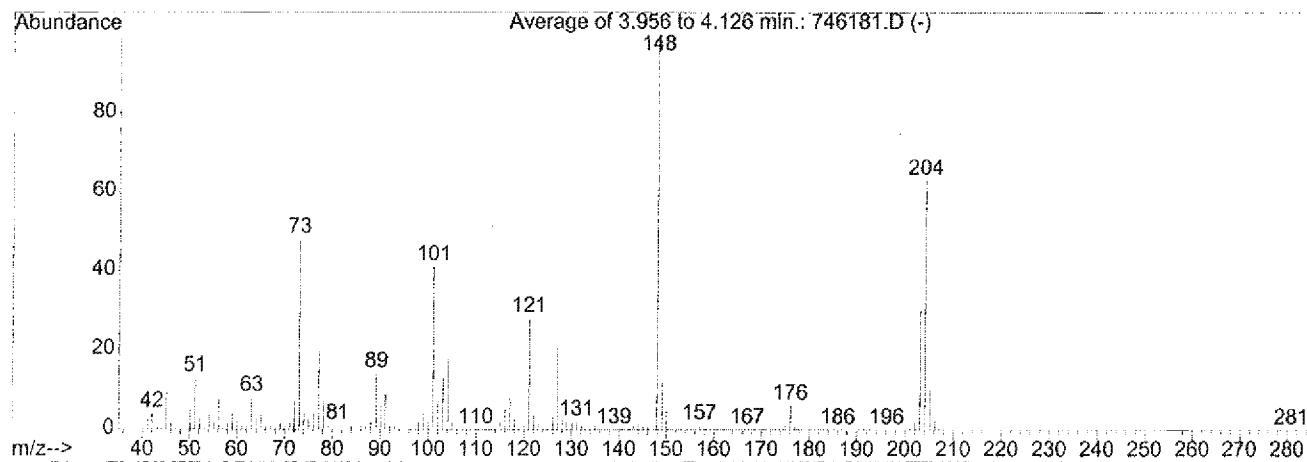
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Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

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PK#	RT	Library/ID	CAS#	Qual
2	3.99	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Levamisole Hydrochloride	016595-80-5	98

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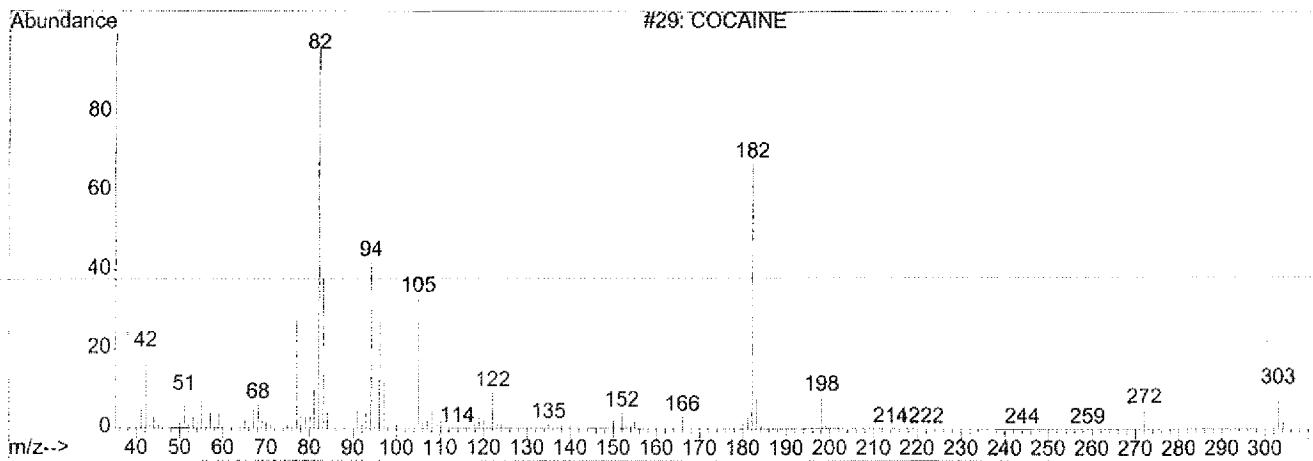
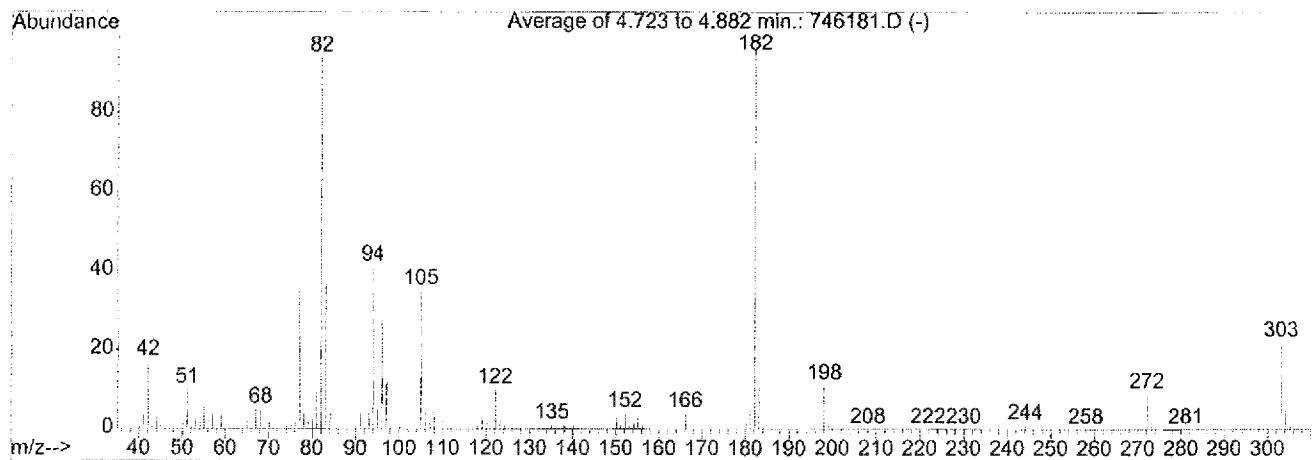
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746181.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 11:04  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 81  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
3	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



# Area Percent / Library Search Report

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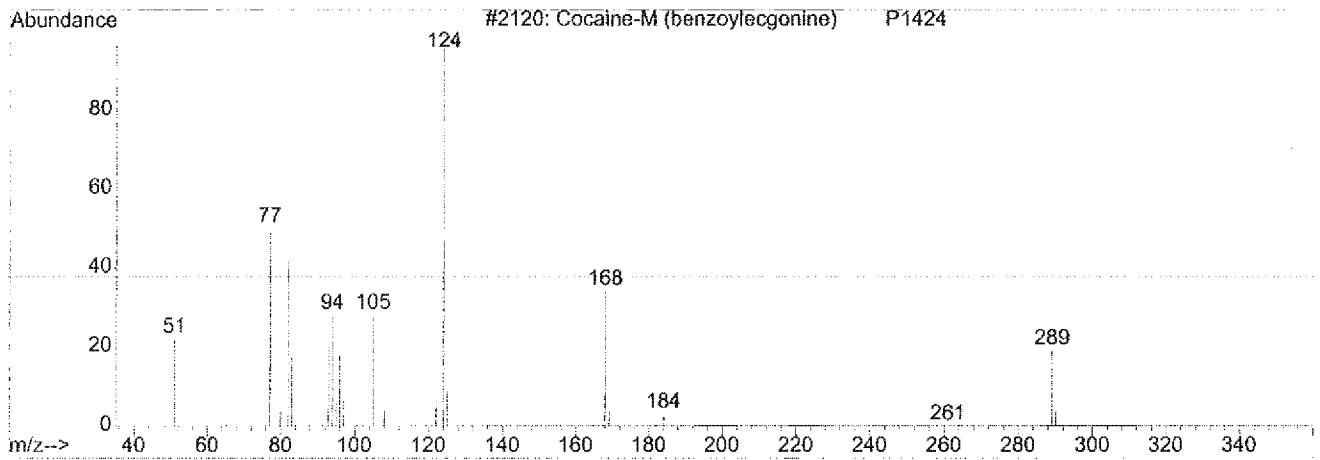
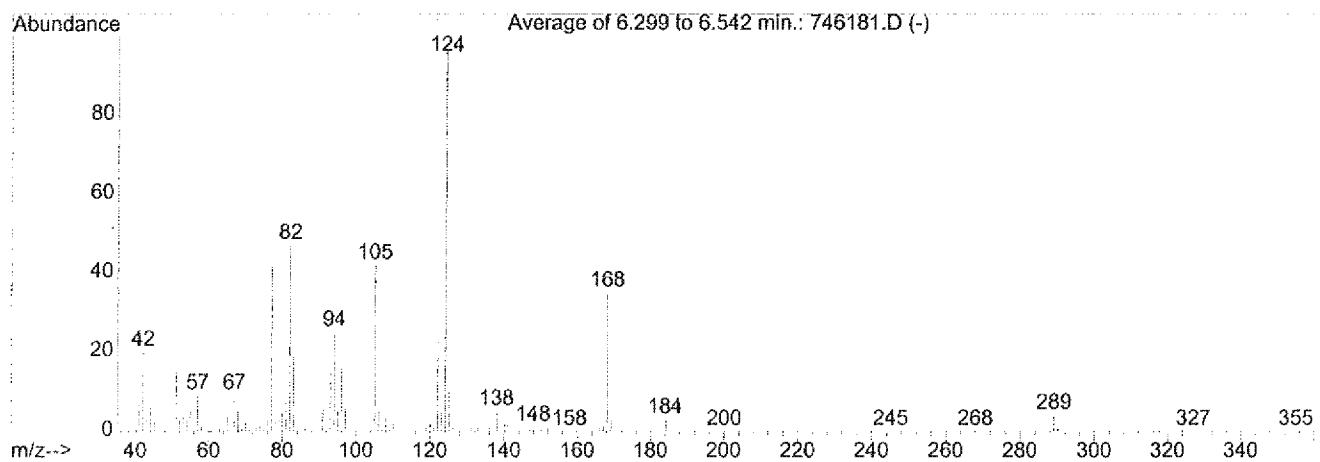
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Date Acquired : 1 Oct 2010 11:04  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 81  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
4	6.36	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (benzoylecgonine)	000519-09-5	97
		Atropine AC	@ 000000-00-0	40
		Mequitazine-M (sulfone)	000000-00-0	12



# Area Percent / Library Search Report

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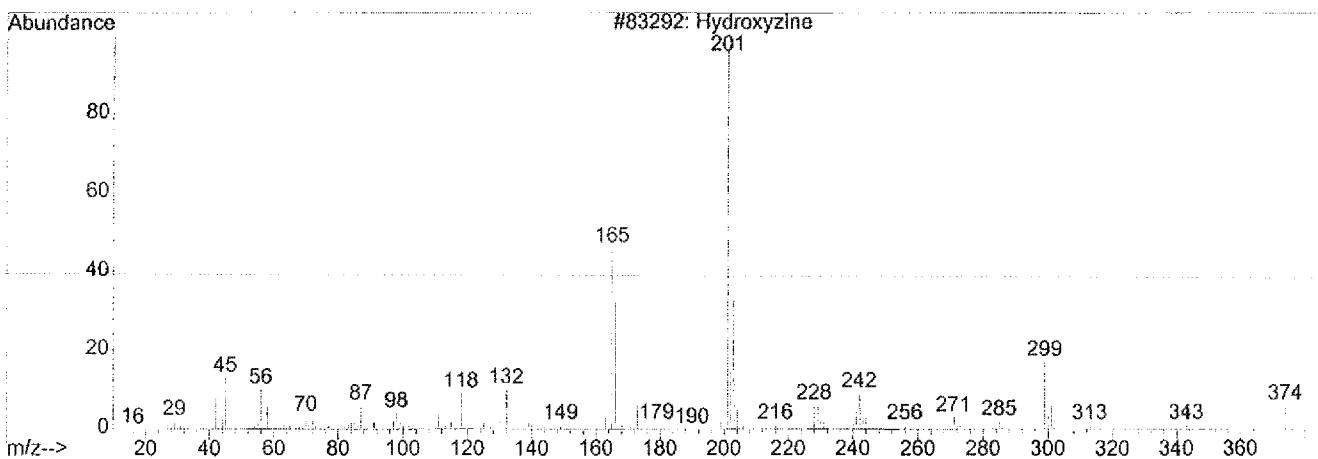
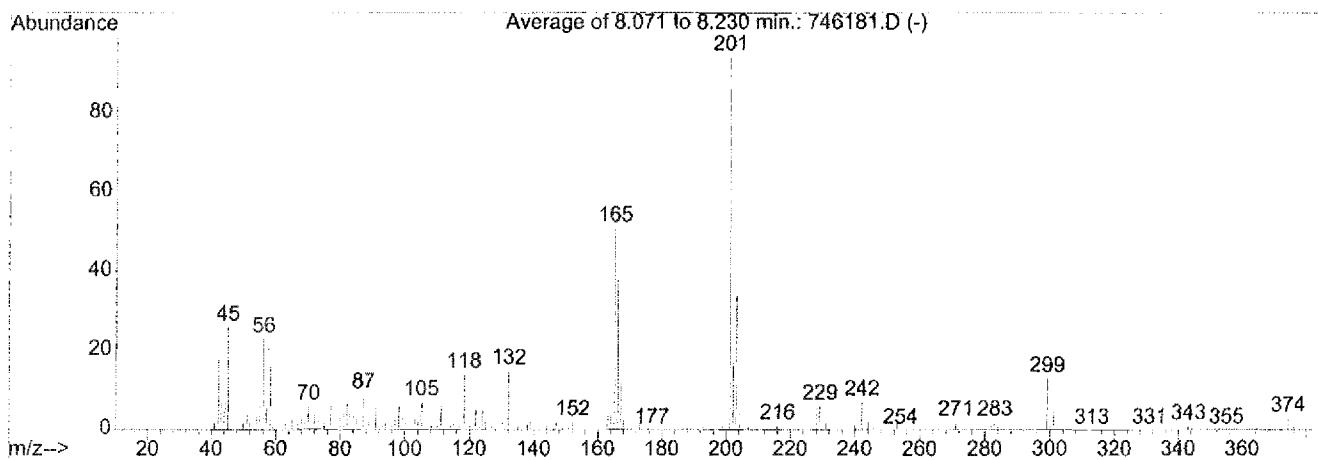
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Operator : ASD  
Date Acquired : 1 Oct 2010 11:04  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 81  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
5	8.14	C:\DATABASE\NIST98.L		
		Hydroxyzine	000068-88-2	91
		Hydroxyzine	000068-88-2	90
		Hydroxyzine	000068-88-2	87



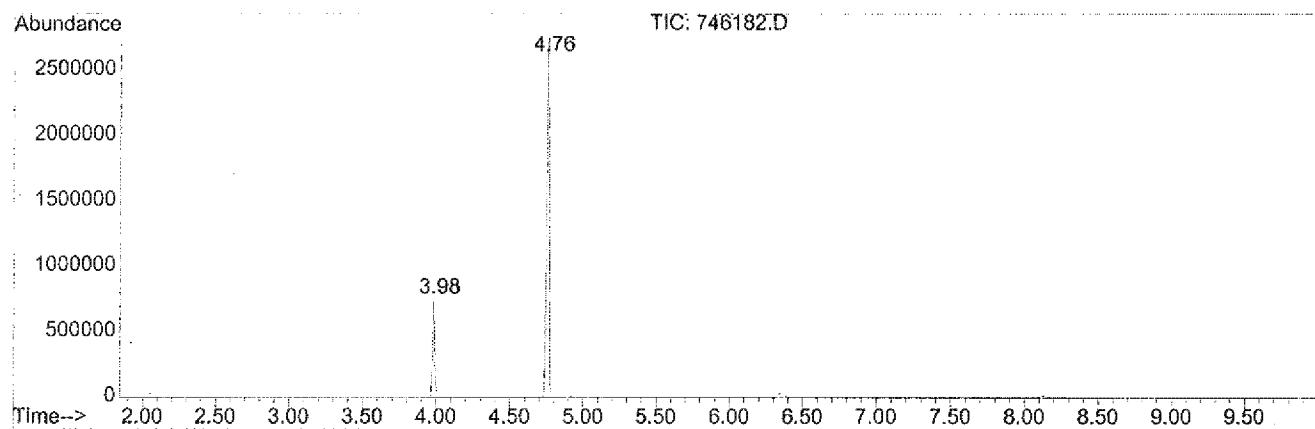
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746182.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 11:18  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 82  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
3.981	826405	20.52	25.82
4.759	3200343	79.48	100.00

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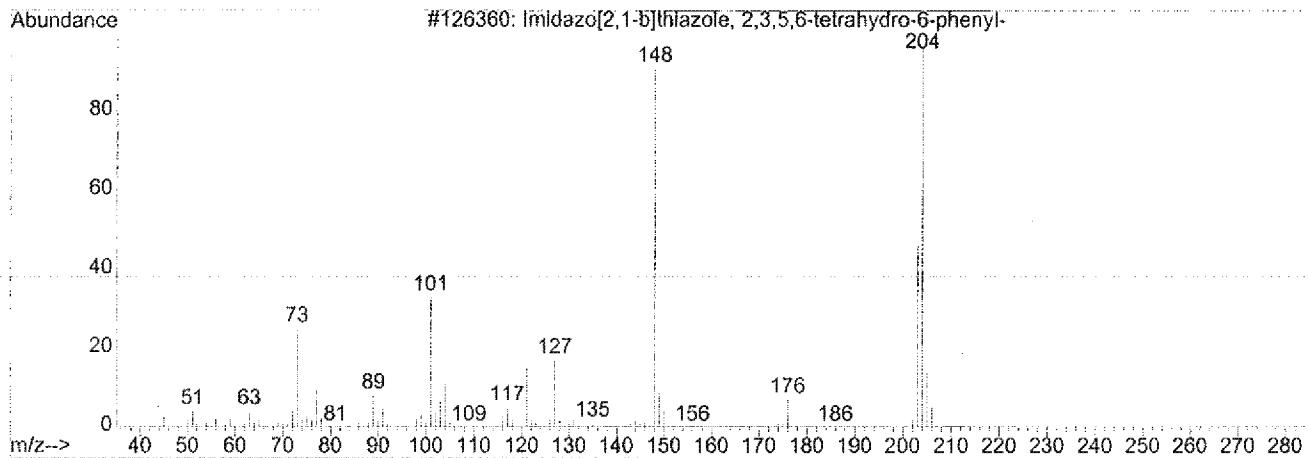
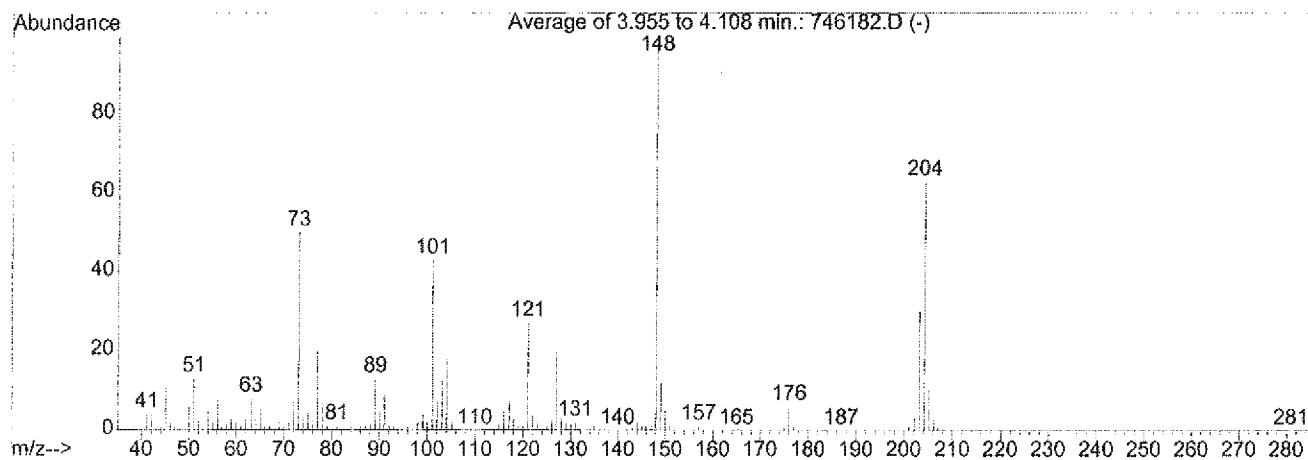
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746182.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 11:18  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 82  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	3.98	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



# Area Percent / Library Search Report

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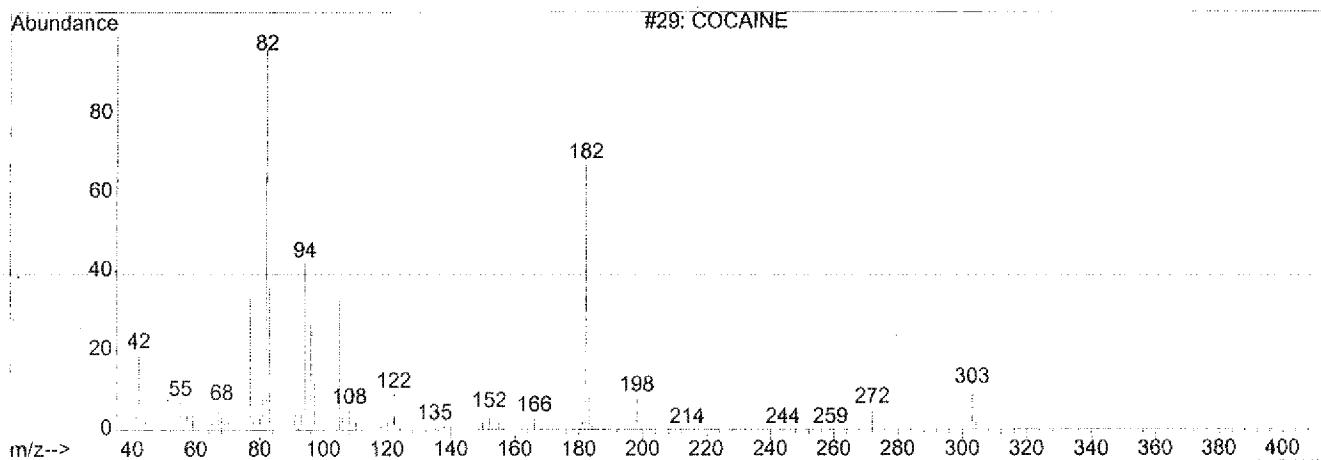
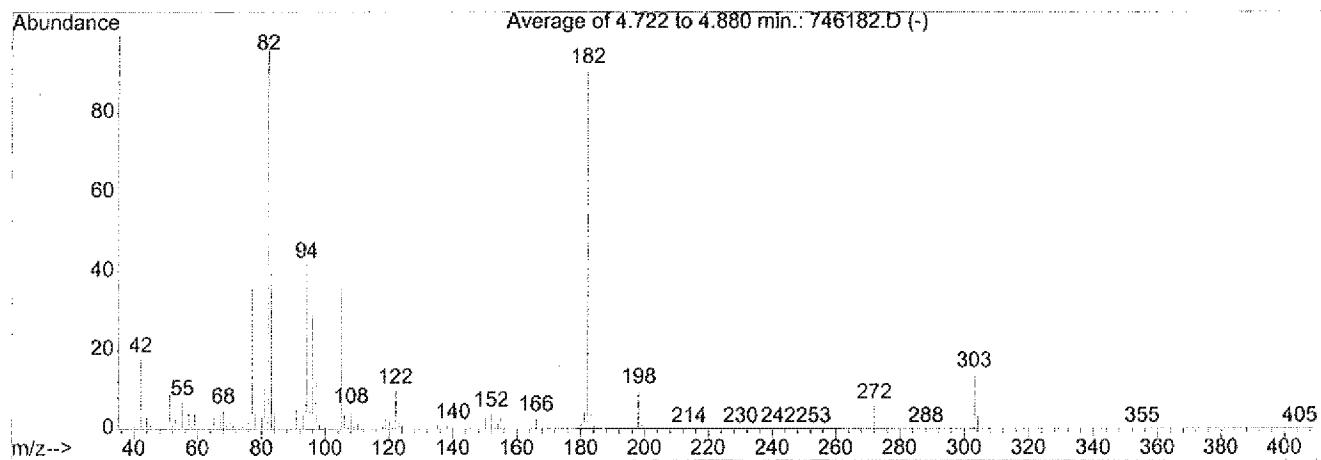
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Operator : ASD  
Date Acquired : 1 Oct 2010 11:18  
Sample Name : XXXXXXXXXX  
Submitted by : SLD  
Vial Number : 82  
AcquisitionMeth: DRUGS  
Integrator : RTE

---

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	4.76	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



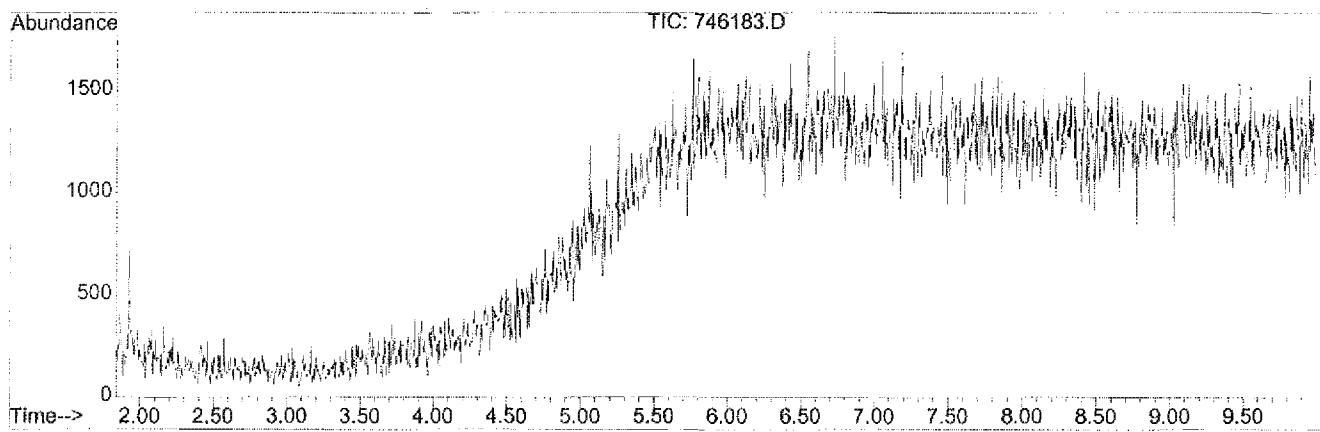
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746183.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 11:31  
Sample Name : BLANK  
Submitted by : SLD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

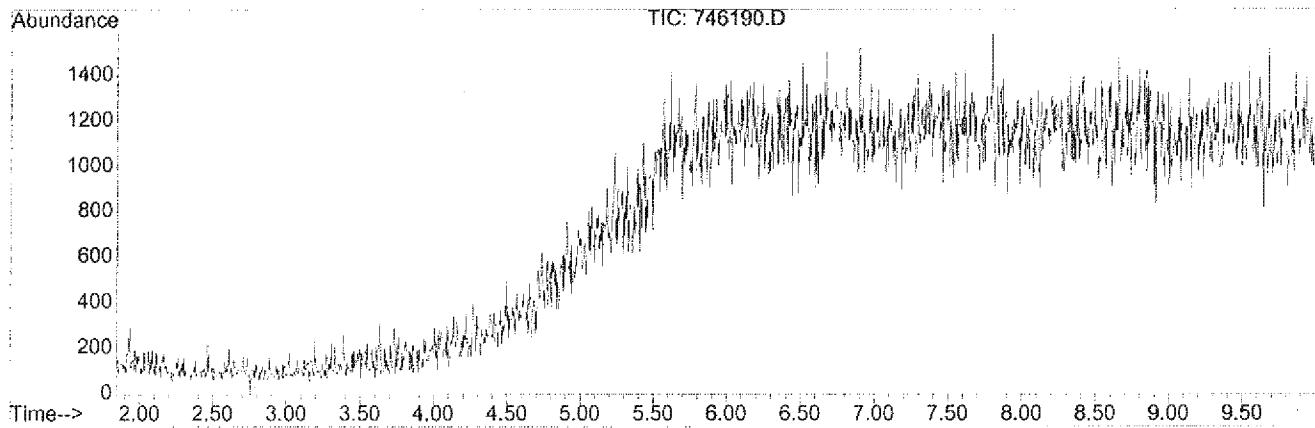
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746190.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 13:07  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

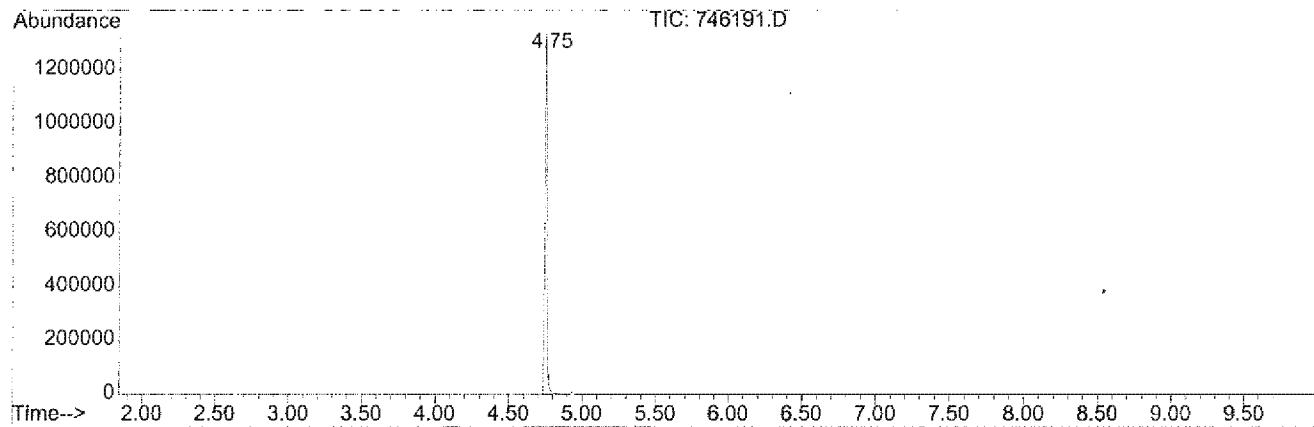
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746191.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 13:21  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 65  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.749	1341285	100.00	100.00

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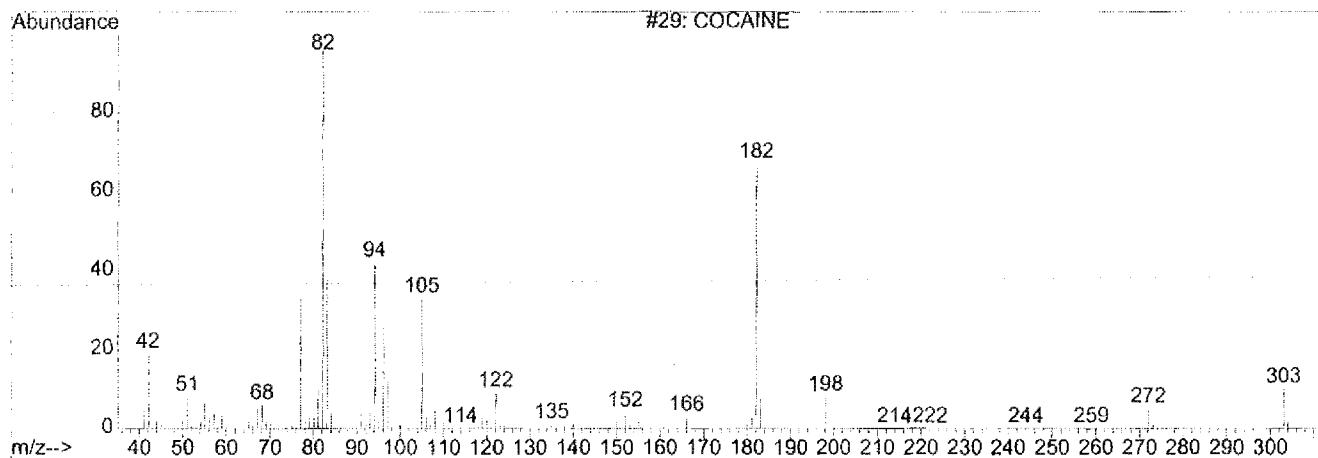
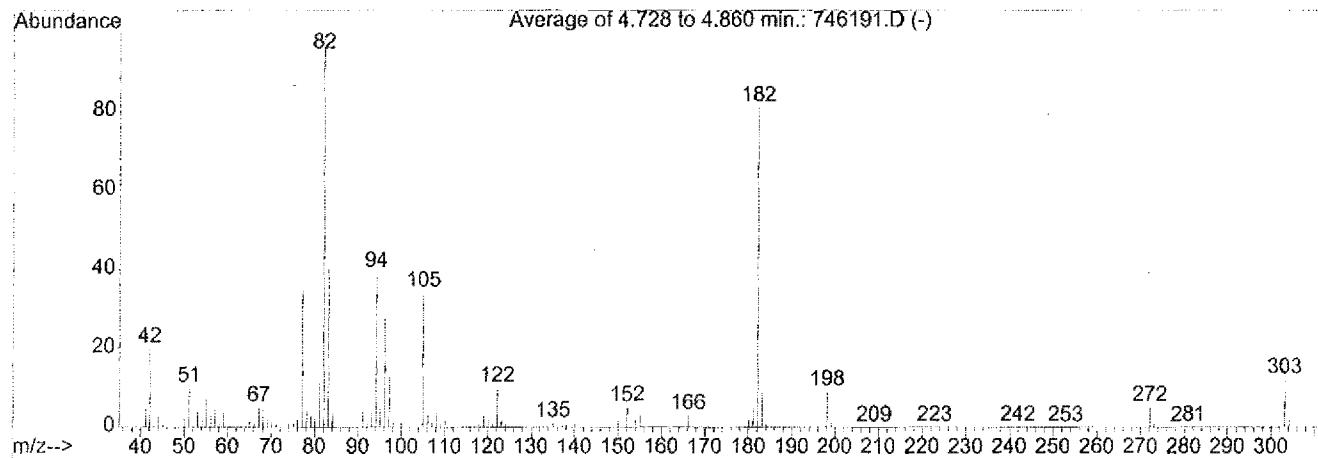
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746191.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 13:21  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 65  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.75	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



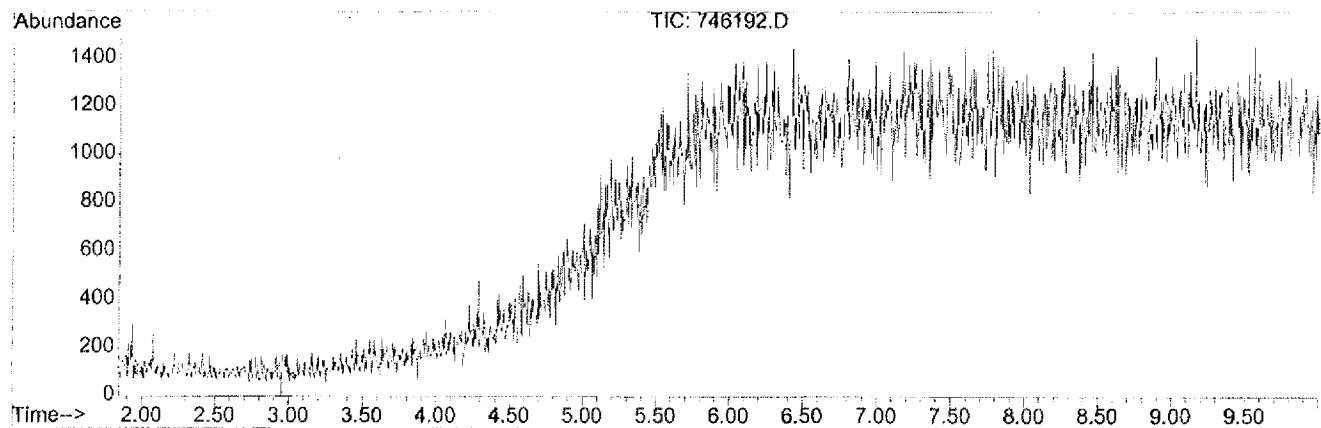
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09\_30\_10\746192.D  
Operator : ASD  
Date Acquired : 1 Oct 2010 13:35  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*